

3A NODE 1/PMA 1 MANUAL HEATER OPERATIONS

1. COMPARE SHELL TEMP(S) TO LIMITS AND POWER HEATER ON/OFF

NOTE

For Node 1 heaters with two temperature sensors, each temperature reading should be compared to the limits for that specific sensor in order to decide whether to turn the heater on or off. If all temperature sensors in a zone have failed then sensors in adjacent zones may be used.

PCS

Node 1: TCS

NODE1: TCS

Note PMA 1 (Node 1) Htr[X]A(B) Temp

sel PMA 1 (Node 1 Htr 1 --- 6)(Node 1 Htr 1 --- 7) Availability

sel PMA 1 (Node 1) Htr[X]A(B) Setpoints

PMA1(Node1) Htr[X]A(B) Setpoints

Note PMA 1 (Node 1) Htr[X]A(B) Lower Setpt

Note PMA 1 (Node 1) Htr[X]A(B) Upper Setpt

If PMA 1 (Node 1) Htr[X]A(B) Temp < PMA 1(Node 1) Htr[X]A(B) Lower Setpoint

sel PMA 1 (Node 1 Htr 1 --- 6) (Node 1 Htr 1 --- 7) Availability

sel Htr[X]A(B) Htr Power

RPCM [..] Htr[X]A(B)

If RPC - Tripped

√**MCC-H**

√Close Cmd - Ena

cmd Close

√Position - CI

If PMA 1 (Node 1) Htr[X]A(B) Temp > PMA 1 (Node 1) Htr[X]A(B) Upper Setpoint

sel PMA 1 (Node 1 Htr 1 --- 6) (Node 1 Htr 1 --- 7) Availability

sel Htr[X]A(B) Htr Power

RPCM [..] Htr[X]A(B)

If RPC - Tripped

√**MCC-H**

√Open Cmd - Ena

cmd Open

√Position - Op

2. REPEAT HEATER POWER ON/OFF CYCLES AS REQUIRED

Repeat step 1 after TBD hours.

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